

1500
Ser N889H4/9U662XXX
27 August 1999

From: Chief of Naval Operations (N889H)

Subj: DRAFT REPORT FOR THE AT "A", AE "A", AND AAIWSM (NEC 6701)
MAINTENANCE TRAINING REQUIREMENTS REVIEW (MTRR)

Ref: (a) CNO WASHINGTON DC 141244Z JUL 99

Encl: (1) MTRR Package

1. As directed by reference (a), subject MTRR was held 23 August through 27 August 1999 onboard NATTC Pensacola, FL, chaired by CNO representative LT M.J. Browning (N889H4). Participants and issues are listed in enclosure (1). OPNAV (Aviation) Training Management System (OATMS) database corrections were completed during this review.
2. The Chief of Naval Education and Training (CNET) has responsibility for action item tracking and resolution. Request commands assigned action items provide a Plan of Action and Milestones (POA&M) to CNET (ETE 3212) within 30 days of receipt of this letter, with a copy to CNO (N889H4).
3. Request widest distribution to appropriate commands.

T.M. VANDENBERG
Commander, U.S. Navy
Head, Aviation Technical Training Section

Distribution

SNDL
CNO (N132)
CMC (ASL-34A, MMA-84)
COMNAVAILANT(Code N422F)
COMNAVIRPAC (Code N422F)
COMNAVIRRESFOR (Code N4213, N4335)

Subj: DRAFT REPORT FOR THE AT, AE "A", AND AAIWSM (NEC 6701) MAINTENANCE
TRAINING REQUIREMENTS REVIEW (MTRR)

Distribution

SNDL

COMNAVVAIRSYSCOM (PMA260, PMA260D211)

CNET (ETE 32, ETE3212)

MCCDC (C461A, C462)

COMNAVPERSCOM (404CT5, 404CE2)

NAMTRAGRU (N2214)

NAMTRAGRUDET Oceana, Whidbey Island, Jacksonville, North Island, New River, Lemoore,
Miramar, Tinker

MALS ELEVEN

MALS THIRTEEN

MALS FOURTEEN

MALS THIRTY ONE

MALS THIRTY SIX

MALS THIRTY NINE

NATTC Pensacola (AT, AE, AAIWSM)

HMT-303 FREST

SECOND MAW (ALD)

AIMD Whidbey Island, North Island, Jacksonville

NAWC-TSD (4971)

EAMTMU

MATSG (AMS-2)

VMAT-203 FREST

VMGRT-253 FREST

COMHELSUPWINGLANT (N441B)

NETPDTC Saufley

VMA TWO THREE ONE

DRAFT

**AT, AE "A", AND AAIWSW (NEC 6701) ATTENDANCE LIST
23 - 27 AUGUST 1999, NATTC PENSACOLA, FL**

POLICY COMMITTEE

NAME	RANK/RATE	ORGANIZATION E-MAIL	AUTOVON
Browning, M.J. (Chair)	LT	CNO (N889H4) browning.matthew@hq.navy.mil	664-7739
Anderson, D.M.	MGySgt	CNO (N889H6) anderson.dave@hq.navy.mil	664-7722
Vandenberg, T.	CDR	CNO (N889H) vandenberg.thomas@hq.navy.mil	224-7730
Wigfall, V.	MAJ	CNO (N889H3) wigfall.victor@hq.navy.mil	224-7762
Bradford, J.M.	MGySgt	CMC (ASL-34A) bradfordjm@hqmc.usmc.mil	224-1187
Higginbotham, C.M.	MAJ	MCCDC (C462) higginbothamcm@tediv.usmc.mil	278-3708
Stark, R.	MSgt	MCCDC (C461A) starkrr@tediv.usmc.mil	278-3047
Smith, E.J.	AVCM	CNAL (N422F1) smithej@exchange.airlant.navy.mil	564-3018
Dickenson, S.	ATC	CNAP (N422F2) sdickenson@cnap.navy.mil	735-5654
Simnick, T.	ATCS	CNARF (N4213) simnick@cnrf.nola.navy.mil	678-5968
Pratt,	MAJ	CNET(ETE 322) capt-paul.pratt@smtp.cnet.navy.mil	922-4883
Gravatt, K.	Msgt	VMA-231 gavatk1@cherrypt.usmc.mil	582-6496

ADVISORY COMMITTEE

Sillitoe, K.T. (Chair)	Msgt	CNET (ETE 3212) msgt-karl.sillitoe@smtp.cnet.navy.mil	922-4916
Martin, J.H.	CIV	NAWC-TSD (4971) martinjh@navair.navy.mil	960-4196
Baker, F.	CIV	NATTC AV DEPT ISS frank.baker@smtp.navy.mil	922-7308/7309
King, T.	CIV	NATTC AV DEPT 20 tom.king@smtp.cnet.navy.mil	922-7308/7309

Turpin.R.J.	MAJ	EAMTMU/MATSG	922-9501/9471
		turpinrj@matsg.usmc.mil	
Bolesworth, W.M.	MGySgt	2 nd MAW (ALD-E)	582-5806
		bolesworthwm@2dmawcp.usmc.mil	
Giffin, R.T.	AT1	COMNAVPERSCOM	882-3684
		p404ct5@persnet.navy.mil	
Melendez, S.E.	AE1	COMNAVPERSCOM	882-3703
		p404ce2@persnet.navy.mil	
Welborn, R.M.	CAPT(USMC)	MATSG (AMS-2)	922-7310
Coleridge, T.	ATCS	NATTC AV DEPT	922-7415
Running Hawk, K.P.	GySgt	EAMTMU	922-9449/9450
		runninghawkkp@matsg.usmc.mil	
Troup, H.	ATC(AW)	NATTC AV DEPT ISD	922-7321
		atc-harold.troup@smtp.cnet.navy.mil	

“AT” O-LEVEL/Common Core Working Committee

Bond, R.T. (Chair)	GySgt	MATSG (AMS-2)	922-7324/7325
		ccmail/rbond@aol.com	
Parker, D.	AT1	NATTC Pensacola	922-7328
		at1-damon.parker@smtp.cnet.navy.mil	
Hanson, E.P.	Sgt	HMT-303 FREST	365-3715
Coil, S.E.	Ssgt	VMAT-203 FREST	582-3841
		scoil@coastalnet.com	
Buhr, P.J.	GySgt	NAMTD New River	750-6688
		gysgt-patrick.j.buhr@smtp.cnet.navy.mil	
Edwards, C.C.	GySgt	NAMTD New River	750-6610/5199
		edwardscc@2dmawnr.usmc.mil	
Thompson, B.G.	AT1(AW)	NAMTD Tinker	339-3500
		thompson@tacamo.navy.mil	
George, F.R.	AT2	AIMD North Island	735-6750
		george.fran@ni.cnrsn.navy.mil	
Hoffman, R.	AT1	NATTC Pensacola	922-7324
		rwhoff@bellsouth.net	
Ellis, S.G.	ATC	NATTC Pensacola	922-7328/7329
		sgellis@bellsouth.net	
Marro, M.E.	GySgt	NAMTD Whidbey Island	820-8822
		marrom@naswi.navy.com	
Stratton, R.	ATC(AW)	NAMTD North Island	735-6206

Castillo, F.	AT1	NAMTD Oceana	433-2726
Becht, C.	AT2	NAMTD Lemoore stealth@cnetech.com	949-4023
Scott, R.	ATC	NAMTD Jacksonville	942-5010

“AT” I-LEVEL/AIWSM WORKING COMMITTEE

Zittlow, R.A. (Chair)	GySgt	MALS-29	750-6661/6619
Brandon, M.E.	GySgt	MALS-31 brandonm@bft.usmc.mil	335-6565
Johnson, N.	Ssgt	MALS-36 johnsonnr@1maw.usmc.mil	636-3487
Tiggs, M.L.	Sgt	MALS-14	582-6141
Kopf, D.B.	ATC	NAMTD Oceana	433-2968
Patterson, J.	CIV	NAVAIR (PMA-260) pattersonja@navair.navy.mil	757-6846
Pollock, T.	ATC	NAVAIR (PMA-260D211) pollockta@navair.navy.mil	757-6872
Harris, J.L. Jr.	Ssgt	MALS-39	365-3806
Dewey, J.	AT1	NATTC Pensacola	922-7415
Brooks, W.E.	ATC(AW)	NATTC Pensacola atc-bill.brooks@cnet.navy.mil	922-7326
Griffis, K.L.	GySgt	MATSG	922-7326
Williams, D.L.	GySgt	MATSG duanejud@prodigy.net	922-7415
Burkett, T.	AEC(AW)	NATTC Pensacola aec-terry.burkett@smtp.cnet.navy.mil	922-7415

“AE” WORKING COMMITTEE

Brown, D. (Chair)	GySgt	MALS-11 brownd1@miramar.usmc.mil	922-7431
Heyder, M.	AEC	NATTC Pensacola aec-mark.heyder@smtp.cnet.navy.mil	922-7508
Wendt, R.	GySgt	VMAT-203 FREST wendtrd@hotmail.com	582-2820

Hallett, J.W.	Ssgt	VMGRT-253 FREST	582-6002
Scanlon, R.	Msgt	NAMTG HQ (N2214)	922-9742 X226 msgt-robin.r.scanlon@smtp.cnet.navy.mil
Callagee, S.P.	GySgt	MALS-13	951-6304 callageesp@yuma.usmc.mil
Edwards, C.C.	GySgt	NAMTD New River	750-6610/5199 edwardscc@2dmaw.usmc.mil
Buhr, P.J.	GySgt	NAMTD New River	750-6688 buhr.gysgt-patrick.j@smtp.cnet.navy.mil
Blashka, B.K.	GySgt	NAMTD New River	750-6724 blashkab@2dmaw.usmc.mil
Johnson, J.	AE1	NAMTD Miramar	267-4395
Stewart, J.	CIV	NATTC Pensacola	922-7508 jimmy.stewart@smtp.cnet.navy.mil
Webb, R.	AVCM	CHSWL (N441B)	942-5211 webbrw@chswl.nadjx.navy.mil
Carlson, A.	AE1(AW)	NATTC Pensacola	922-7510 acalusn@aol.com
Golombek, M.R.	AE1(AW)	NATTC Pensacola	922-7510
Pennington, L.	AEC(AW)	NATTC Pensacola	922-7505 aec-lloyd.pennington@smtp.navy.mil
Morris, C.	AEC(AW/SW)	AIMD Jacksonville	942-2139 moriscl@nasjax.navy.mil
Wood, M.	AECS(AW)	NETPDTC Saufley	922-1585 aecs-mark.wood@smtp.navy.mil
Canales, B.	AEC(AW)	CNARF (N4335)	678-5975 canales@cnrf.nola.navy.mil

CIN	TITLE	RATE	NEC	MOS	ACTION ITEM	CMD	ACTION TASK	ISSUE
C-100-2012	ADVANCED AVIONICS INTEGRATED WEAPONS SYSTEM MAINTENANCE	AT/AE	6701	0000	ATC1.96MTRR.2012.002	CNET	1. Add 1553 Data Bus theory to Lesson 5.15.	Need to add 1553 Data Bus theory to course.
C-100-2012	ADVANCED AVIONICS INTEGRATED WEAPONS SYSTEM MAINTENANCE	AT/AE	6701	0000	ATC1.96MTRR.2012.003	CNAP	1. Review SQMD/AMD'S to insure appropriate billets are source coded for NEC 6701. (1 - AT AND 1 - AE) Refer to Action Item AVSI.99MTRR.2012.007.	There are not enough NEC 6701 billets in the fleet.
C-100-2012	ADVANCED AVIONICS INTEGRATED WEAPONS SYSTEM MAINTENANCE	AT/AE	6701	0000	ATC1.96MTRR.2012.004	CNAL	1. Review SQMD/AMD'S to insure appropriate billets are source coded for NEC 6701. (1 - AT AND 1 - AE) Refer to Action Item AVSI.99MTRR.2012.007.	There are not enough NEC 6701 billets in the fleet.
C-100-2012	ADVANCED AVIONICS INTEGRATED WEAPONS SYSTEM MAINTENANCE	AT/AE	6701	0000	ATC1.96MTRR.2012.006	CNET	Incorporate digital communications theory (E.G. SATCOM, HAVE QUICK, HTSH) into Unit 6. No additional time authorized.	Curriculum does not cover digital communications theory (E.G. SATCOM, HAVE QUICK, HTHS).
C-100-2012	ADVANCED AVIONICS INTEGRATED WEAPONS SYSTEM MAINTENANCE	AT/AE	6701	0000	AVSI.99MTRR.2012.001	CNO/CMC	No Action Required; ongoing effort. -CNO/HQMC has and will continue to re-iterate the importance and availability of this training to all avionics Navy/Marine personnel. -MCCDC is exploring the incorporation of this issue into the MCAVRET Continuum.	Utilization of C-1 school seats for Marine personnel suffers miserably.
C-100-2012	ADVANCED AVIONICS INTEGRATED WEAPONS SYSTEM MAINTENANCE	AT/AE	6701	0000	AVSI.99MTRR.2012.002	CNET	No Action Required. The 1553 is Depot Level repair. The 1553 theory is adequate.	The 1553 Data Bus is tucked into 5.12 in the course rewrite. It is listed at the end of the lesson. Need troubleshooting lab.
C-100-2012	ADVANCED AVIONICS INTEGRATED WEAPONS SYSTEM MAINTENANCE	AT/AE	6701	0000	AVSI.99MTRR.2012.003	CNO	Review quota requirements and resubmit new allocation at next Student Input Plan (SIP) Conference.	Seat assignments for AAIWSM (C1) are not being filled. C1 is forced to class up with sometimes as few as 4 students. The Navy is utilizing 93% of their seats, but the Marine Corps and Coast Guard are not using theirs.
C-100-2012	ADVANCED AVIONICS INTEGRATED WEAPONS SYSTEM MAINTENANCE	AT/AE	6701	0000	AVSI.99MTRR.2012.004	CNET	No Action Required. OPNAV concurs that prior 6701 NEC experience and training is beneficial but not a requirement.	AAIWSM (C1) instructor billets are not being filled with C-School graduates. Adequate C-School graduates are not available in general instructor pool forcing AVC1 to gap billets.

C-100-2012	ADVANCED AVIONICS INTEGRATED WEAPONS SYSTEM MAINTENANCE	AT/AE	6701	0000	AVSI.99MTRR.2012.005	CNET	(NAMTRAGRU): Validate the requirement for NEC 6701 as an instructor prerequisite to upper level technical C-Schools.	AAIWSM (C1) graduates are not being utilized in training commands. C-School graduates have in-depth knowledge of electronics which is useful to NAMTRAGRUDET instruction.
C-100-2012	ADVANCED AVIONICS INTEGRATED WEAPONS SYSTEM MAINTENANCE	AT/AE	6701	0000	AVSI.99MTRR.2012.006	BUPERS	Monitors ensure inbound C1 students are prepared for and meet CANTRAC C1 pre-requisite.	Inbound students to AAIWSM (C1) are not meeting pre-requisites prior to arrival to training forcing AVC1 to set students back until pre-requisites are met.
C-100-2012	ADVANCED AVIONICS INTEGRATED WEAPONS SYSTEM MAINTENANCE	AT/AE	6701	0000	AVSI.99MTRR.2012.007	CNO	CNO is actively exploring and increasing NEC 6701 billet requirements.	Utilization of C-School students is not happening. C-School students are not finding billets available to utilize the training they receive.
C-100-2012	ADVANCED AVIONICS INTEGRATED WEAPONS SYSTEM MAINTENANCE	AT/AE	6701	0000	AVSI.99MTRR.2012.03A	CMC	Review quota requirements and resubmit new allocation at next Student Input Plan (SIP) Conference.	Seat assignments for AAIWSM (C1) are not being filled. C1 is forced to class up with sometimes as few as 4 students. The Navy is utilizing 93% of their seats, but the Marine Corps and Coast Guard are not using theirs.
C-100-2012	ADVANCED AVIONICS INTEGRATED WEAPONS SYSTEM MAINTENANCE	AT/AE	6701	0000	AVSI.99MTRR.2012.03B	EAMTMU	Review quota requirements and resubmit new allocation at next Student Input Plan (SIP) Conference.	Seat assignments for AAIWSM (C1) are not being filled. C1 is forced to class up with sometimes as few as 4 students. The Navy is utilizing 93% of their seats, but the Marine Corps and Coast Guard are not using theirs.
C-100-2012	ADVANCED AVIONICS INTEGRATED WEAPONS SYSTEM MAINTENANCE	AT/AE	6701	0000	AVSI.99MTRR.2012.03C	CNET	Review quota requirements and resubmit new allocation at next Student Input Plan (SIP) Conference.	Seat assignments for AAIWSM (C1) are not being filled. C1 is forced to class up with sometimes as few as 4 students. The Navy is utilizing 93% of their seats, but the Marine Corps and Coast Guard are not using theirs.
C-100-2012	ADVANCED AVIONICS INTEGRATED WEAPONS SYSTEM MAINTENANCE	AT/AE	6701	0000	AVSI.99MTRR.2012.03D	CNAL	Review quota requirements and resubmit new allocation at next Student Input Plan (SIP) Conference.	Seat assignments for AAIWSM (C1) are not being filled. C1 is forced to class up with sometimes as few as 4 students. The Navy is utilizing 93% of their seats, but the Marine Corps and Coast Guard are not using theirs.
C-100-2012	ADVANCED AVIONICS INTEGRATED WEAPONS SYSTEM MAINTENANCE	AT/AE	6701	0000	AVSI.99MTRR.2012.03E	CNAP	Review quota requirements and resubmit new allocation at next Student Input Plan (SIP) Conference.	Seat assignments for AAIWSM (C1) are not being filled. C1 is forced to class up with sometimes as few as 4 students. The Navy is utilizing 93% of their seats, but the Marine Corps and Coast Guard are not using theirs.
C-100-2012	ADVANCED AVIONICS INTEGRATED WEAPONS SYSTEM MAINTENANCE	AT/AE	6701	0000	AVSI.99MTRR.2012.03F	CNRF	Review quota requirements and resubmit new allocation at next Student Input Plan (SIP) Conference.	Seat assignments for AAIWSM (C1) are not being filled. C1 is forced to class up with sometimes as few as 4 students. The Navy is utilizing 93% of their seats, but the Marine Corps and Coast Guard are not using theirs.

C-100-2012	ADVANCED AVIONICS INTEGRATED WEAPONS SYSTEM MAINTENANCE	AT/AE	6701	0000	AVSI.99MTRR.2012.03G	BUPERS	Review quota requirements and resubmit new allocation at next Student Input Plan (SIP) Conference.	Seat assignments for AAIWSM (C1) are not being filled. C1 is forced to class up with sometimes as few as 4 students. The Navy is utilizing 93% of their seats, but the Marine Corps and Coast Guard are not using theirs.
C-100-2012	ADVANCED AVIONICS INTEGRATED WEAPONS SYSTEM MAINTENANCE	AT/AE	6701	0000	AVSI.99MTRR.2012.06A	CMC	Monitors ensure inbound C1 students are prepared for and meet CANTRAC C1 pre-requisite.	Inbound students to AAIWSM (C1) are not meeting pre-requisites prior to arrival to training forcing AVC1 to set students back until pre-requisites are met.
C-100-2012	ADVANCED AVIONICS INTEGRATED WEAPONS SYSTEM MAINTENANCE	AT/AE	6701	0000	AVSI.99PMTRR.2012.01	CNET	Course is being incorporated with new equipment in Unit 5 of new 2012A rewrite of curriculum. Updated to 32 BIT System.	PREMTRR: When I went through the course we were working with computer systems that were 10 years old.
C-100-2017	AVIONICS TECHNICIAN I LEVEL CLASS A1	AT	0000	6411	AT1.99MTRR.2017.001	CNET	Delete "VAST" training and "HATS" training from E.O. 4.68 in Lesson Topic 2.15 "ATE". No change in course length.	Obsolete student matter in lesson topic 2.15. Automatic Test Equipment E.O. 4.68 A Versatile Avionics Shop Test (VAST) and Hybrid Automatic Test Station (HATS).
C-100-2017	AVIONICS TECHNICIAN I LEVEL CLASS A1	AT	0000	6411	AT1.99MTRR.2017.002	CNET	No Action Required. Refer to Action Item H46.99MTRR.3014.01 dtd 04/14/99.	Due to upgraded system platforms, the AN/ARC-51 UHF Radio is being replaced by the AN/ARC-210 Radio. HMT-204 FREST is currently teaching the AN/ARC-51 course. This 12 day course is only being taught twice a year upon fleet request. HMT-204 FREST "I-Level" COMM/NAV is grossly being under utilized in both manpower and equipment due to the fact that this is the "ONLY" course the "I-Level" COMM/NAV instructors support.
C-100-2017	AVIONICS TECHNICIAN I LEVEL CLASS A1	AT	0000	6411	AT1.99MTRR.2017.003	CNET	No A-School action required. Action Item deferred to the 610 MTRR tentatively scheduled for June 2000.	From: Avionics Comm/Nav NCOIC, Marine Aviation Logistics Squadron 36 Currently there is quite a disparity between the training needed to support the KC-130's in their current configuration from the, "Intermediate (IMA) Level Perspective", and that which exists at the KC-130 FREST (VMGRT-253 FREST). The most noted deficiencies are the lack formal training on the AN/APX-76 Interrogator System and the AN/APS-133 Color Weather Radar System.
C-100-2017	AVIONICS TECHNICIAN I LEVEL CLASS A1	AT	0000	6411	AT1.99MTRR.2017.004	CNET	Delete CDPs 625A and 625D. Utilize CDP 624Y to ensure all students receive the entire 74 days of training to include Radar Theory/Troubleshooting principles.	There are 2 CDP's that are used in the assignment of students to "AT" I-Level: CDP 624Y - Designates "AT" I-Level technicians and consist of 74 training days ranging from circuit analysis, semiconductor devices and transistor

								<p>theory to Radio communications and Radar theory/troubleshooting principles.</p> <p>CDP 625A and CDP 625D - Designates MATC Basic technicians and only consists of the first 51 training days of the same course which only takes these students up to Radio Communications.</p> <p>The Radar course that the MATC students receive is particularly difficult and it's curriculum is definitely designed with an intermediate technician entry level base. Without receiving the basic Radar Principles/Theory that is provided by this course, the level of difficulty for the students is increased significantly.</p>
C-100-2017	AVIONICS TECHNICIAN I LEVEL CLASS A1	AT	0000	6411	ATI.96MTRR.2017.001	CNET	1. Rewrite lessons 2.9 through 2.12 not to exceed 16.0 hours total.	Lessons 2.9 through 2.12 need to be rewritten.
C-100-2017	AVIONICS TECHNICIAN I LEVEL CLASS A1	AT	0000	6411	ATI.99PMTRR.2017.01	CNET	Add basic principles of IFF, TACAN, SONAR, and Infrared technology to C-100-2017A. Increase course length by 1.0 day.	PREMTRR: Too much time being spent on radar and no coverage of other items at all.
C-100-2017	AVIONICS TECHNICIAN I LEVEL CLASS A1	AT	0000	6411	ATI.99PMTRR.2017.02	CNET	No action required. Current lesson topic sequencing is adequate.	<p>PREMTRR: The following basic components and circuits are taught in "system" lesson topics that are common to more than that system.</p> <p>3.1 Differential and Operational Amplifiers 3.2 Solid State Devices 4.4 Integrators and Differentiators 4.5 Blocking Amplifiers 4.8 Voltage Multipliers 4.9 Multiphase Power Supplies 4.10 Switching Power Supplies</p>
C-100-2017	AVIONICS TECHNICIAN I LEVEL CLASS A1	AT	0000	6411	ATO.99MTRR.2018.004	CNET	<p>1. Course C-100-2018A revision/increase DISAPPROVED.</p> <p>2. Incorporate L.T. 2.2 from AE "O" (Transistor Amplifiers) into Common Core (8.0 hours). Increase Common Core (C-100-2020, CDP 625B) length by 8.0 hours.</p> <p>3. Delete L.T. 2.2 from AE "O" course C-602-2039A. Reduce course length by 8.0 hours.</p> <p>4. Incorporate L.T. 1.1.0 from AT "I" (Transistor Amplifiers) into Common Core (8.0 hours). Increase Common Core (C-100-2020, CDP 625C) length by 8.0 hours.</p> <p>5. Delete L.T. 1.1.0 from AT "I" course C-</p>	Transistor theory needs to be added to the curriculum.

							100-2017A. Reduce course length by 8.0 hours.	
C-100-2018	AVIONICS TECHNICIAN O LEVEL CLASS A1	AT	0000	6311	ATO.96MTRR.2018.001	CNET	1. Add training days to accommodate incorporation of the 11B108 trainer. Include instruction on the following systems: Fire Control Radar, TACAN, INS, GPS, IFF, FLIR, Data Bus (LAB), ASW, ESM, and Weapons Control Systems. (COMPLETED) 2. Submitt TPP for approval NLT 30 Sept 96. (COMPLETED) 99 MTRR: The 6E36 trainer development already in work. The 6E36 trainer will replace 11B108 trainer. No change in course length.	99 A-School MTRR: The 11B108 trainer labs do not include training on GPS, Intercommunications Systems, HUD, Electronic Warfare, RAD ALT/RAWS, FLIR, Wiring Troubleshooting, Power Distribution/Relays, ASW and Data Bus troubleshooting and NALCOMIS.
C-100-2018	AVIONICS TECHNICIAN O LEVEL CLASS A1	AT	0000	6311	ATO.99MTRR.2018.001	CNET	Add ICS to L.T. 4.12. No change in course length.	Basic ICS system is not included in the curriculum.
C-100-2018	AVIONICS TECHNICIAN O LEVEL CLASS A1	AT	0000	6311	ATO.99MTRR.2018.002	CNET	Incorporate Ring Laser Gyro to L.T. 4.9. No change in course length.	In the INS lesson, there is no mention of the Ring Laser Gyro.
C-100-2018	AVIONICS TECHNICIAN O LEVEL CLASS A1	AT	0000	6311	ATO.99MTRR.2018.003	CNO	DISAPPROVED. NEC not needed upon graduation from A-School.	No NEC to identify O-Level AT's.
C-100-2018	AVIONICS TECHNICIAN O LEVEL CLASS A1	AT	0000	6311	ATO.99MTRR.2018.004	CNET	1. Course C-100-2018A revision/increase DISAPPROVED. 2. Incorporate L.T. 2.2 from AE "O" (Transistor Amplifiers) into Common Core (8.0 hours). Increase Common Core (C-100-2020, CDP 625B) length by 8.0 hours. 3. Delete L.T. 2.2 from AE "O" course C-602-2039A. Reduce course length by 8.0 hours. 4. Incorporate L.T. 1.1.0 from AT "I" (Transistor Amplifiers) into Common Core (8.0 hours). Increase Common Core (C-100-2020, CDP 625C) length by 8.0 hours. 5. Delete L.T. 1.1.0 from AT "I" course C-100-2017A. Reduce course length by 8.0 hours.	Transistor theory needs to be added to the curriculum.
C-100-2018	AVIONICS TECHNICIAN O LEVEL CLASS A1	AT	0000	6311	ATO.99PMTRR.2018.01	CNET	Course rewrite of C-100-2018A includes adequate (MIMS) instruction.	PREMTRR: Too little time spent on the Maintenance Instruction Manuals (MIMS).
C-100-2018	AVIONICS TECHNICIAN O LEVEL CLASS A1	AT	0000	6311	H46.99MTRR.2018.01	CNET	Refer to Action Item AEA.99MTRR.2039.01 and AEA.99MTRR.2039.01A.	H-46 MTRR: 6322's are sourced through AV(A1) vice AE(A1). AV(A1) does not correlate to follow-on training at FREST, nor actual work performed.

								AE A-School MTRR: Marine Corps helicopter community avionics MOS's (6322, 6323, 6324) are sourced through the A-School course C-100-2018 (AT "O" level strand course). Because Marines in these MOSs must be proficient in Electrical Systems as well as Communication/Navigation Systems, this course does not meet the basic requirements. It is required that the trainees designated for these MOS's have a knowledge of Electrical Systems and Communication/Navigation Systems so that the follow-on schools (NAMTRAGRUDET) can build upon it.
C-100-2019	MARINE AIR TRAFFIC CONTROL BASIC TECHNICIAN CLASS A1	AT	N/A	0000	AT1.99MTRR.2017.004	CNET	Delete CDPs 625A and 625D. Utilize CDP 624Y to ensure all students receive the entire 74 days of training to include Radar Theory/Troubleshooting principles.	<p>There are 2 CDP's that are used in the assignment of students to "AT" I-Level:</p> <p>CDP 624Y - Designates "AT" I-Level technicians and consist of 74 training days ranging from circuit analysis, semiconductor devices and transistor theory to Radio communications and Radar theory/troubleshooting principles.</p> <p>CDP 625A and CDP 625D - Designates MATC Basic technicians and only consists of the first 51 training days of the same course which only takes these students up to Radio Communications.</p> <p>The Radar course that the MATC students receive is particularly difficult and it's curriculum is definitely designed with an intermediate technician entry level base. Without receiving the basic Radar Principles/Theory that is provided by this course, the level of difficulty for the students is increased significantly.</p>
C-100-2020	AVIONICS COMMON CORE CLASS A1	AE	0000	N/A	AEA.99PMTRR.2020.01	CNET	No action required. Corrosion Control is adequate in revised course C-100-2020A.	PREMTRR: Unsure if Avionics Corrosion Control is explained to the required depth. All ATs and AEs are required to be Avionics Corrosion Control qualified.
C-100-2020	AVIONICS COMMON CORE CLASS A1	AE	0000	N/A	AEA.99PMTRR.2020.02	CNET	No action required. Connector repair taught in NAMTRAGRU and FASO. Current connector repair is sufficient for the "A" School student for preparation to follow-on training.	<p>PREMTRR: Connector Repair. Graduated students are arriving at their ultimate duty station with little or no knowledge on repairing connectors.</p> <p>MTRR: Lesson Topic 1.8 needs to include the repair of coax cables, environmental splices, solder cups and connector repair (inserting, removing and replacing pins).</p>

C-100-2020	AVIONICS COMMON CORE CLASS A1	AE	0000	N/A	AEA.99PMTRR.2020.03	CNET	No action required. NALCOMIS is taught indepth at FASO (SCIR School).	PREMTRR: Graduated students are arriving at their ultimate duty station have a very vague knowledge of what NALCOMIS is.
C-100-2020	AVIONICS COMMON CORE CLASS A1	AE	0000	N/A	AEA.99PMTRR.2020.04	CNET	No action required. HAZMAT instruction is sufficient in the revised C-100-2020A course.	PREMTRR: HAZMAT - with the importance on protecting the environment, the student needs to have a better base-line understanding of HAZMAT and hazardous waste.
C-100-2020	AVIONICS COMMON CORE CLASS A1	AT	N/A	0000	AT1.99MTRR.2017.004	CNET	Delete CDPs 625A and 625D. Utilize CDP 624Y to ensure all students receive the entire 74 days of training to include Radar Theory/Troubleshooting principles.	<p>There are 2 CDP's that are used in the assignment of students to "AT" I-Level:</p> <p>CDP 624Y - Designates "AT" I-Level technicians and consist of 74 training days ranging from circuit analysis, semiconductor devices and transistor theory to Radio communications and Radar theory/troubleshooting principles.</p> <p>CDP 625A and CDP 625D - Designates MATC Basic technicians and only consists of the first 51 training days of the same course which only takes these students up to Radio Communications.</p> <p>The Radar course that the MATC students receive is particularly difficult and it's curriculum is definitely designed with an intermediate technician entry level base. Without receiving the basic Radar Principles/Theory that is provided by this course, the level of difficulty for the students is increased significantly.</p>
C-100-2020	AVIONICS COMMON CORE CLASS A1	AT	0000	N/A	ATA.99PMTRR.2020.01	CNET	Add Time Domain Reflectometry (TDR) and Frequency Domain Reflectometry (FDR) to course, not to exceed 1.0 hour.	PREMTRR: Time Domain Reflectometry (TDR) and Frequency Domain Reflectometry (FDR) are not included in the curriculum.
C-100-2020	AVIONICS COMMON CORE CLASS A1	AT	0000	N/A	ATA.99PMTRR.2020.02	CNET	No action required. Currently 4 hour classroom, 7 hours lab in revised course C-100-2020A.	PREMTRR: Not enough time spent on Lesson Topic 3.3: AC Lab and Test Equipment.
C-100-2020	AVIONICS COMMON CORE CLASS A1	AT	0000	N/A	ATA.99PMTRR.2020.03	CNET	DISAPPROVED. Bridge circuits to remain in course.	PREMTRR: Bridge circuits are included in the curriculum. They are obsolete and are never used.
C-100-2020	AVIONICS COMMON CORE CLASS A1	AT	0000	N/A	ATA.99PMTRR.2020.04	CNET	No action required. Revised course C-100-2020A has E.O.'s in correct order.	PREMTRR: The Enabling Objectives (EOs) in Lesson Topic 1.8: Soldering and Wire Connector Repair are out of order.
C-100-2020	AVIONICS COMMON CORE CLASS A1	AE	0000	N/A	ATO.99MTRR.2018.004	CNET	<p>1. Course C-100-2018A revision/increase DISAPPROVED.</p> <p>2. Incorporate L.T. 2.2 from AE "O"</p>	Transistor theory needs to be added to the curriculum.

							(Transistor Amplifiers) into Common Core (8.0 hours). Increase Common Core (C-100-2020, CDP 625B) length by 8.0 hours. 3. Delete L.T. 2.2 from AE "O" course C-602-2039A. Reduce course length by 8.0 hours. 4. Incorporate L.T. 1.1.0 from AT "I" (Transistor Amplifiers) into Common Core (8.0 hours). Increase Common Core (C-100-2020, CDP 625C) length by 8.0 hours. 5. Delete L.T. 1.1.0 from AT "I" course C-100-2017A. Reduce course length by 8.0 hours.	
C-100-2020	AVIONICS COMMON CORE CLASS A1	AT	0000	N/A	ATO.99MTRR.2018.004	CNET	1. Course C-100-2018A revision/increase DISAPPROVED. 2. Incorporate L.T. 2.2 from AE "O" (Transistor Amplifiers) into Common Core (8.0 hours). Increase Common Core (C-100-2020, CDP 625B) length by 8.0 hours. 3. Delete L.T. 2.2 from AE "O" course C-602-2039A. Reduce course length by 8.0 hours. 4. Incorporate L.T. 1.1.0 from AT "I" (Transistor Amplifiers) into Common Core (8.0 hours). Increase Common Core (C-100-2020, CDP 625C) length by 8.0 hours. 5. Delete L.T. 1.1.0 from AT "I" course C-100-2017A. Reduce course length by 8.0 hours.	Transistor theory needs to be added to the curriculum.
C-100-2020	AVIONICS COMMON CORE CLASS A1	AT	0000	N/A	CORE.96MTRR.2020.001	CNET	1. Revise course to include one (1) day of data bus instruction. 2. Revise CANTRAC to reflect new course length (51 days).	1. Revise course to include one (1) day of data bus instruction. 2. Revise CANTRAC to reflect new course length (51 days).
C-100-2020	AVIONICS COMMON CORE CLASS A1	AT	0000	N/A	CORE.99MTRR.2020.01	CNET	Add the recognition of 3 phases in the A.C. theory to L.T. 3.2. Increase course length by 3.0 hours.	Recognition of 3 phases in A.C. theory.
C-100-2020	AVIONICS COMMON CORE CLASS A1	AT	0000	N/A	CORE.99MTRR.2020.02	CNET	No Core Course action required. Taught in AT "I" Level course.	Lesson topic 3.3 AC Lab and Test Equipment need to teach frequency modulation. Most junior techs do not know how to modulate a signal with external test equipment and the few that do tend to put in too big of a signal and damage the signal generator.
C-602-2039	AVIATION ELECTRICIANS MATE O-LEVEL STRAND CLASS A1	AE	0000	0000	AEA.99MTRR.2039.01	CNET	1. Approve incorporation/standup of AE "I" course C-602-2042. 2. AT "O" course fix, covered by introduction	1. AE techs receive inadequate "I" level electronic theory. 2. AT "O" tech receives inadequate A/C Power

							of new trainer (6E36 replacement to 11B108 trainer). 3. Perform Training Task Analysis (TTA) to determine "AT" and "AE" rating task commonality at the "O" and "I" level, respectively. Provide final results NLT 01 FEB 00.	Distribution, Electro-Hydraulic, AFCS, Instrument Systems training and troubleshooting. 3. M/C "O" level rotor wing techs (single MOS) work both "AT" and "AE" systems, yet only receive "AT" training.
C-602-2039	AVIATION ELECTRICIANS MATE O-LEVEL STRAND CLASS A1	AE	0000	0000	AEA.99MTRR.2039.01A	EAMTMU	Source Marine helo avionics personnel through AE "O" track.	1. AE techs receive inadequate "I" level electronic theory. 2. AT "O" tech receives inadequate A/C Power Distribution, Electro-Hydraulic, AFCS, Instrument Systems training and troubleshooting. 3. M/C "O" level rotor wing techs (single MOS) work both "AT" and "AE" systems, yet only receive "AT" training.
C-602-2039	AVIATION ELECTRICIANS MATE O-LEVEL STRAND CLASS A1	AE	0000	0000	AEA.99MTRR.2039.02	CG 2ND MAW	DISAPPROVED. Recommendation is inconsistent with the training concepts laid out by Naval Aviation and Marine Corps Aviation in particular.	AV-8B O-Level Electricians (6335) are sourced through the Avionics Common Core and then Aviation Electricians Mate Strand course. These sources are not preparing 6335's for follow-on training, nor actual work performed. To much of what the Marines are being exposed to will never be used by a 6335.
C-602-2039	AVIATION ELECTRICIANS MATE O-LEVEL STRAND CLASS A1	AE	0000	0000	AEO.96MTRR.2039.001	CNET	1. Revise C-602-2039A to reflect "O" level strand in title. 2. Remove 2.5 days from AHRS and 2.5 days from INS.	1. Title wrong. 2. AHRS and INS too indepth.
C-602-2039	AVIATION ELECTRICIANS MATE O-LEVEL STRAND CLASS A1	AE	0000	0000	AEO.99PMTRR.2039.01	CNET	DISAPPROVED. Current course (C-602-2039A) curriculum is sufficient/adequate.	PREMTRR: Too little time spent on the following topics: 1.2 - Introduction to Troubleshooting 1.3 - Basic Lighting Circuit Theoretical Troubleshooting 4.1 - Turbine Engine Familiarization 7.5 - Automatic Flight Control and Trim Systems ... and too much time spent on the following topics: 2.5 - Generator Control and Monitoring Systems 3.7 - Speed Brake System Troubleshooting Lab 3.9 - Flap System Theoretical Troubleshooting 3.10 - Flap System Troubleshooting Lab
C-602-2039	AVIATION ELECTRICIANS MATE O-LEVEL STRAND CLASS A1	AE	0000	0000	AEO.99PMTRR.2039.02	CNET	No action required. Core course (C-100-2020A), Unit 4 covers digital training adequately.	PREMTRR: The current course does not address enough digital training systems. Fleet application of analog systems and obsolete aircraft is not

								beneficial.
C-602-2039	AVIATION ELECTRICIANS MATE O-LEVEL STRAND CLASS A1	AE	0000	0000	ATO.99MTRR.2018.004	CNET	1. Course C-100-2018A revision/increase DISAPPROVED. 2. Incorporate L.T. 2.2 from AE "O" (Transistor Amplifiers) into Common Core (8.0 hours). Increase Common Core (C-100-2020, CDP 625B) length by 8.0 hours. 3. Delete L.T. 2.2 from AE "O" course C-602-2039A. Reduce course length by 8.0 hours. 4. Incorporate L.T. 1.1.0 from AT "I" (Transistor Amplifiers) into Common Core (8.0 hours). Increase Common Core (C-100-2020, CDP 625C) length by 8.0 hours. 5. Delete L.T. 1.1.0 from AT "I" course C-100-2017A. Reduce course length by 8.0 hours.	Transistor theory needs to be added to the curriculum.
C-602-2039	AVIATION ELECTRICIANS MATE O-LEVEL STRAND CLASS A1	AE	0000	0000	H46.99MTRR.2018.01	CNET	Refer to Action Item AEA.99MTRR.2039.01 and AEA.99MTRR.2039.01A.	H-46 MTRR: 6322's are sourced through AV(A1) vice AE(A1). AV(A1) does not correlate to follow-on training at FREST, nor actual work performed. AE A-School MTRR: Marine Corps helicopter community avionics MOS's (6322, 6323, 6324) are sourced through the A-School course C-100-2018 (AT "O" level strand course). Because Marines in these MOSs must be proficient in Electrical Systems as well as Communication/Navigation Systems, this course does not meet the basic requirements. It is required that the trainees designated for these MOS's have a knowledge of Electrical Systems and Communication/Navigation Systems so that the follow-on schools (NAMTRAGRUDET) can build upon it.
C-602-2042	AVIATION ELECTRICIAN'S MATE (AE) INTERMEDIATE MAINTENANCE (I) LEVEL STRAND	AE	0000	0000	620.97MTRR.5812.001	CNET	(T25123) Review "AE" A-School strand to include MA-3 and battery maintenance as possible modules. 1999 AE A-School MTRR: DISAPPROVED. Movement of MA-3 training from MCAS Cherry Point to NATTC Pensacola is not cost effective nor in the best interest of Naval Aviation.	Move MA-3 training to A-School.
C-602-2042	AVIATION ELECTRICIAN'S MATE (AE) INTERMEDIATE MAINTENANCE (I) LEVEL	AE	0000	0000	AEAI.96MTRR.20XX.001	CNET	1. Develop a new AE "I" level strand course C-602-2042. Estimated length to be 74 days (14.4 wks).	

	STRAND						2. Refer to Action Item AEA.99MTRR.2039.01.	
--	--------	--	--	--	--	--	--	--

DRAFT